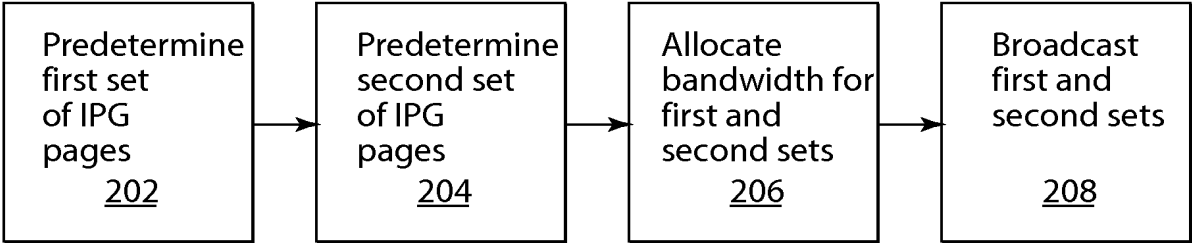


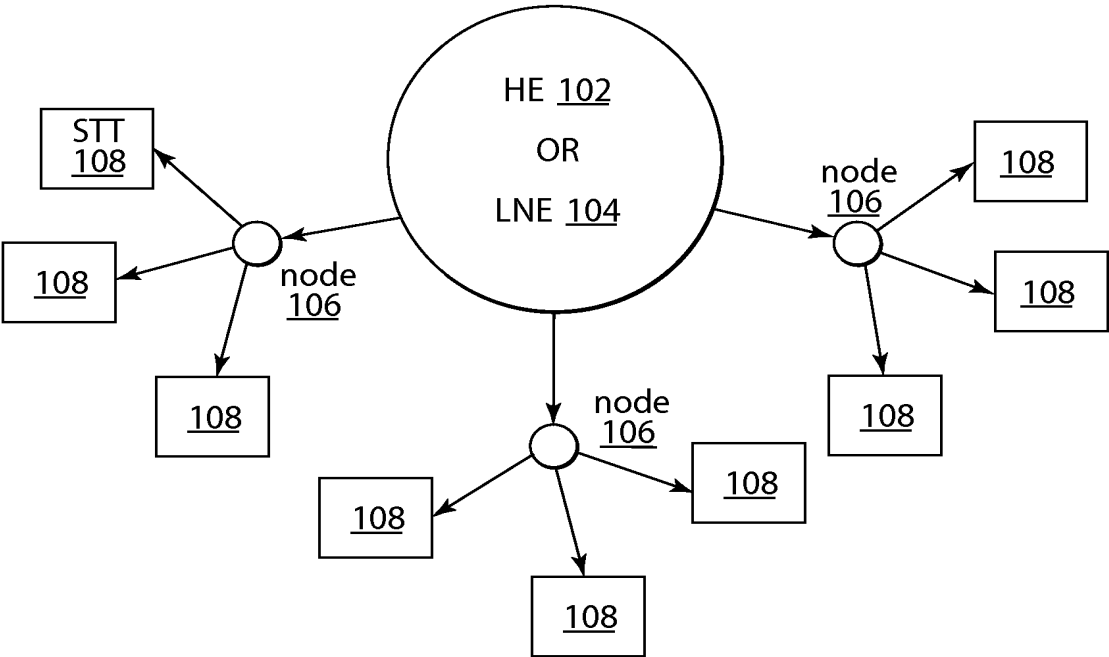
FIG. 1



First Push Demandcast (Broadcast) Method

200

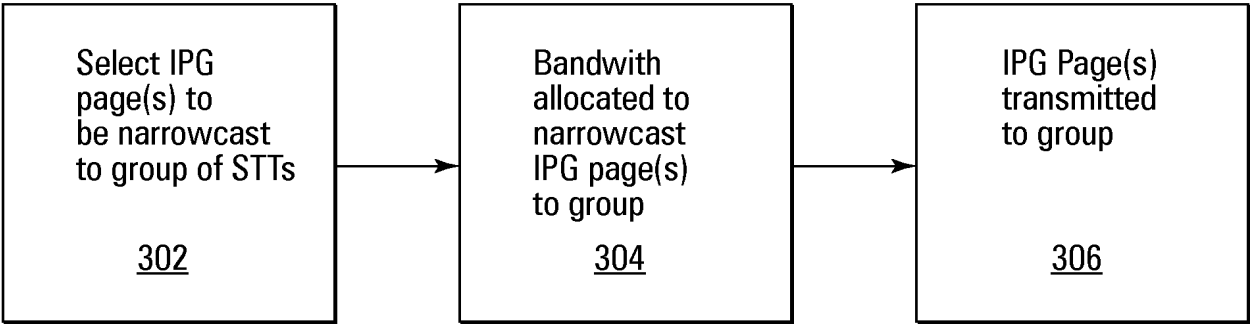
FIG. 2A



First Push Demandcast (Broadcast) Topology

250

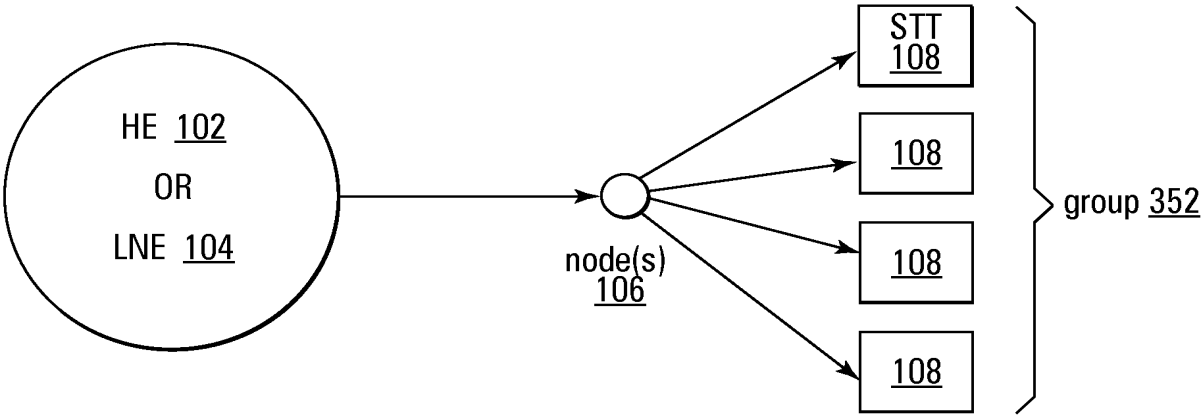
FIG. 2B



Second Push Demandcast (Narrowcast) Method

FIG. 3A

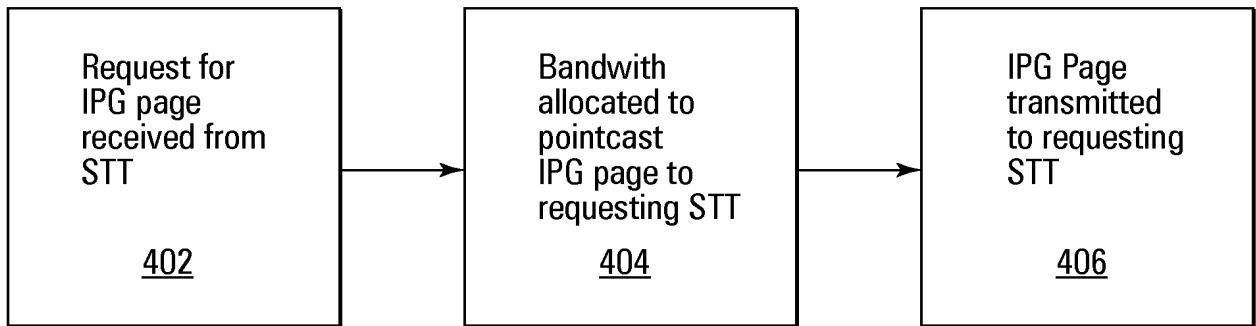
300



Second Push Demandcast (Narrowcast) Topology

FIG. 3B

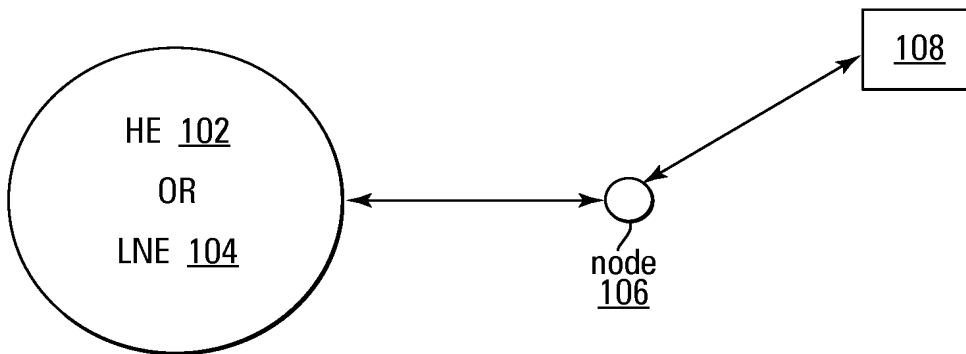
350



First Pull Demandcast (Pointcast) Method

FIG. 4A

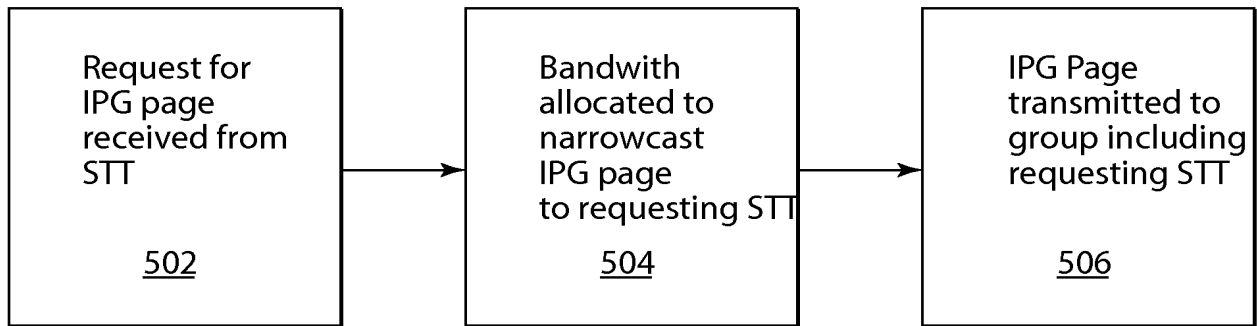
400



Pull Demandcast (Pointcast) Topology

FIG. 4B

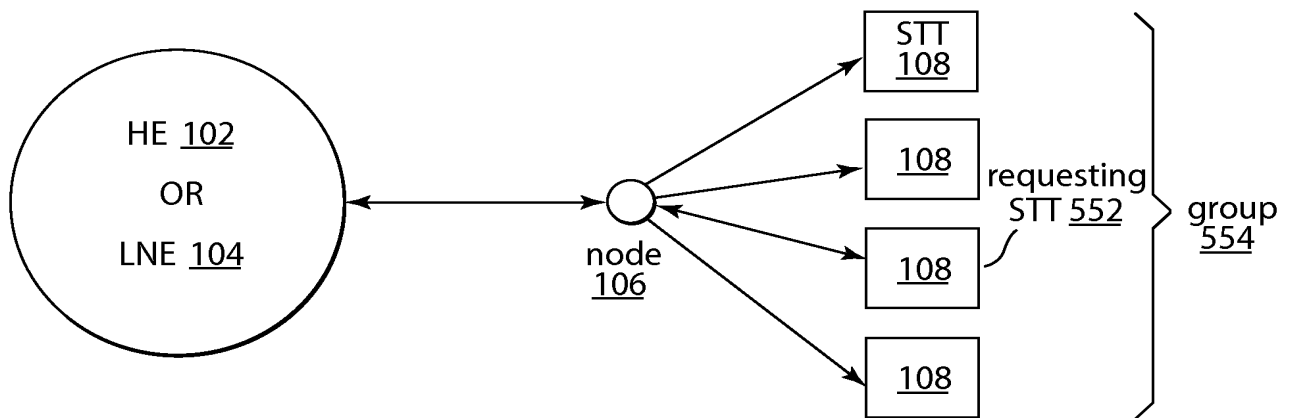
450



Second Pull Demandcast (Narrowcast) Method

FIG. 5A

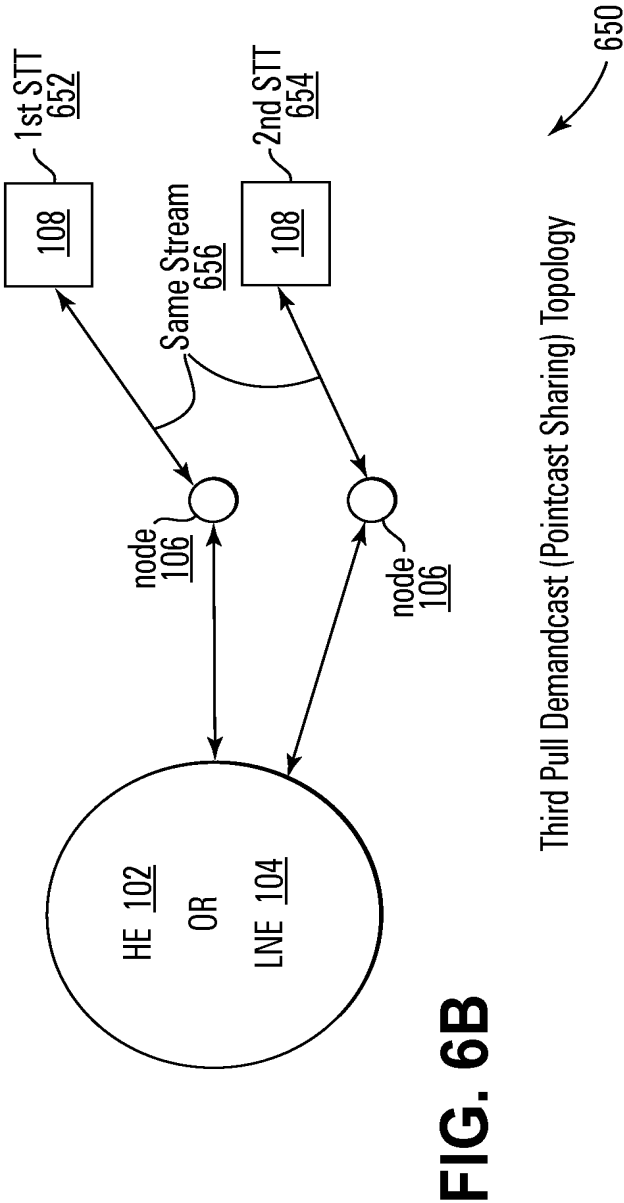
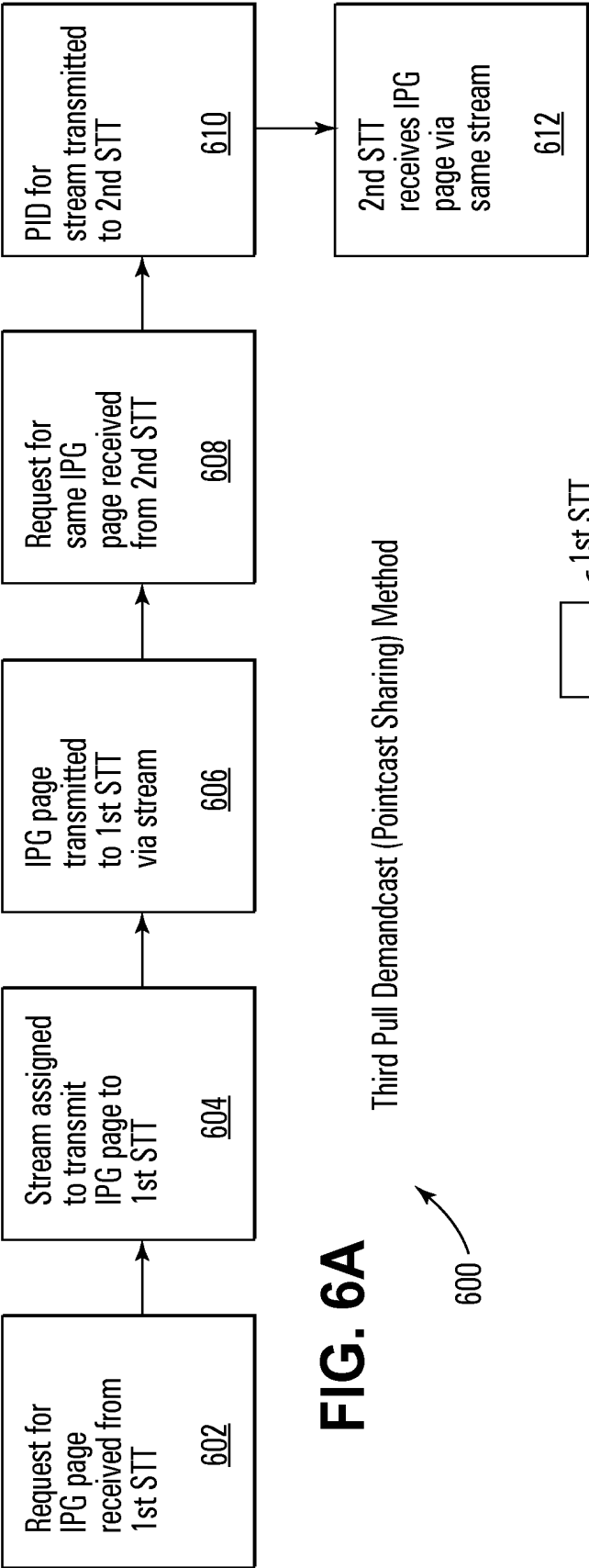
500



Second Pull Demandcast (Narrowcast) Topology

FIG. 5B

550



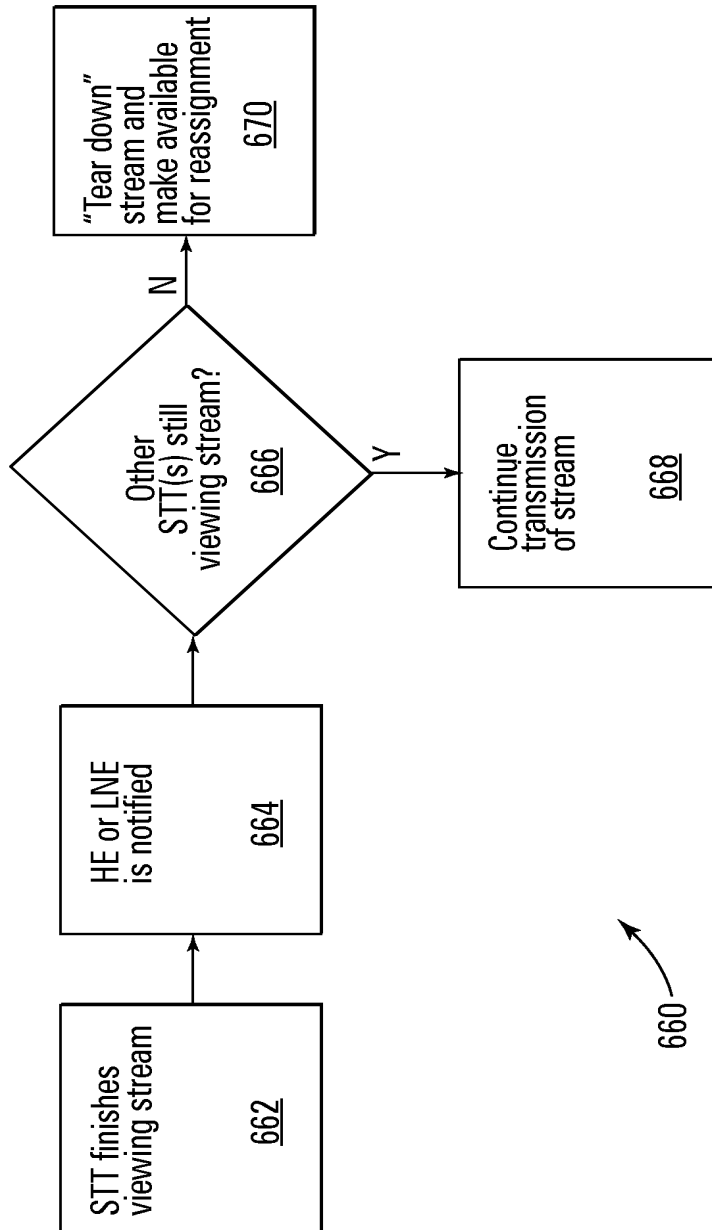


FIG. 6C

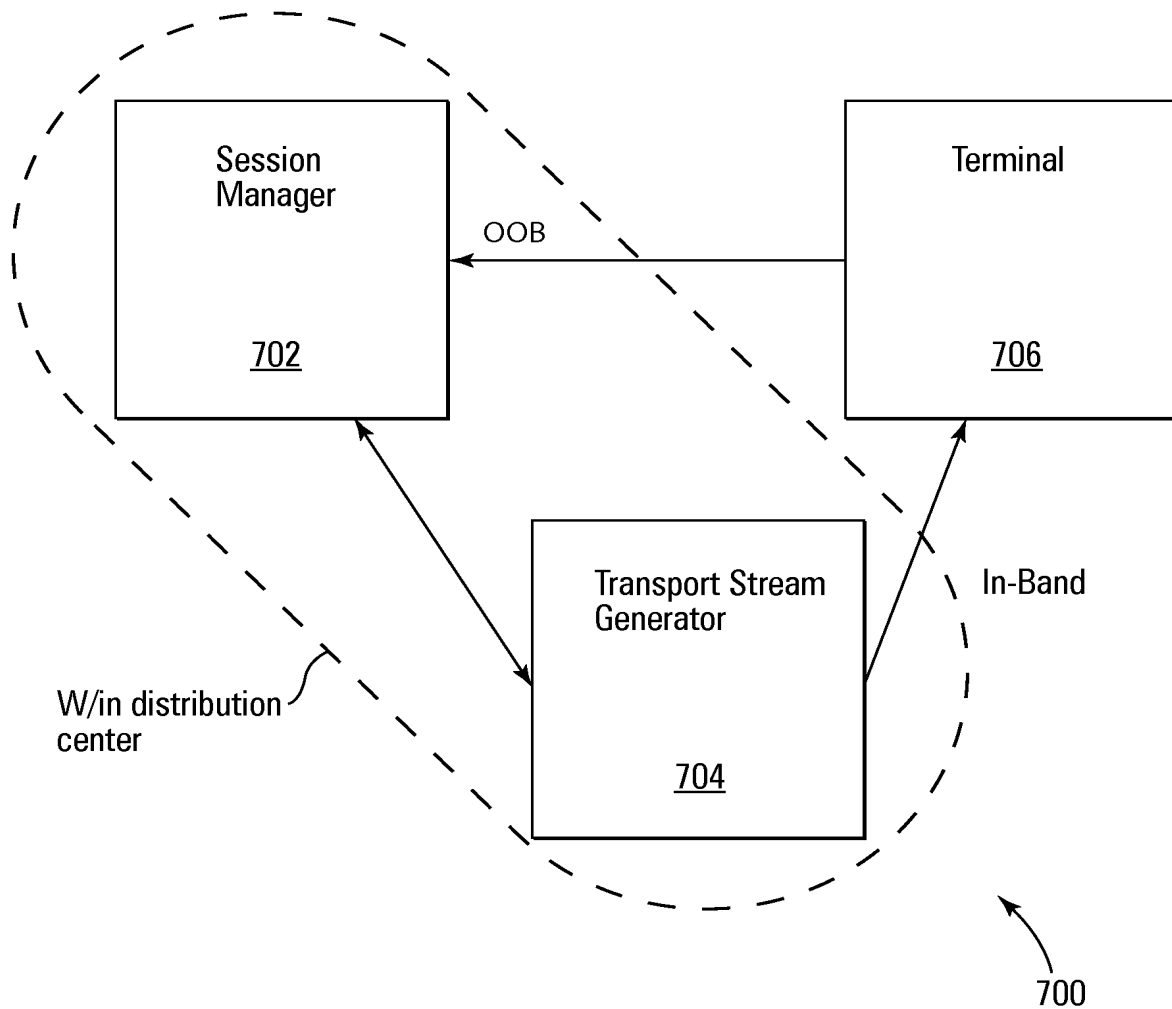


FIG. 7

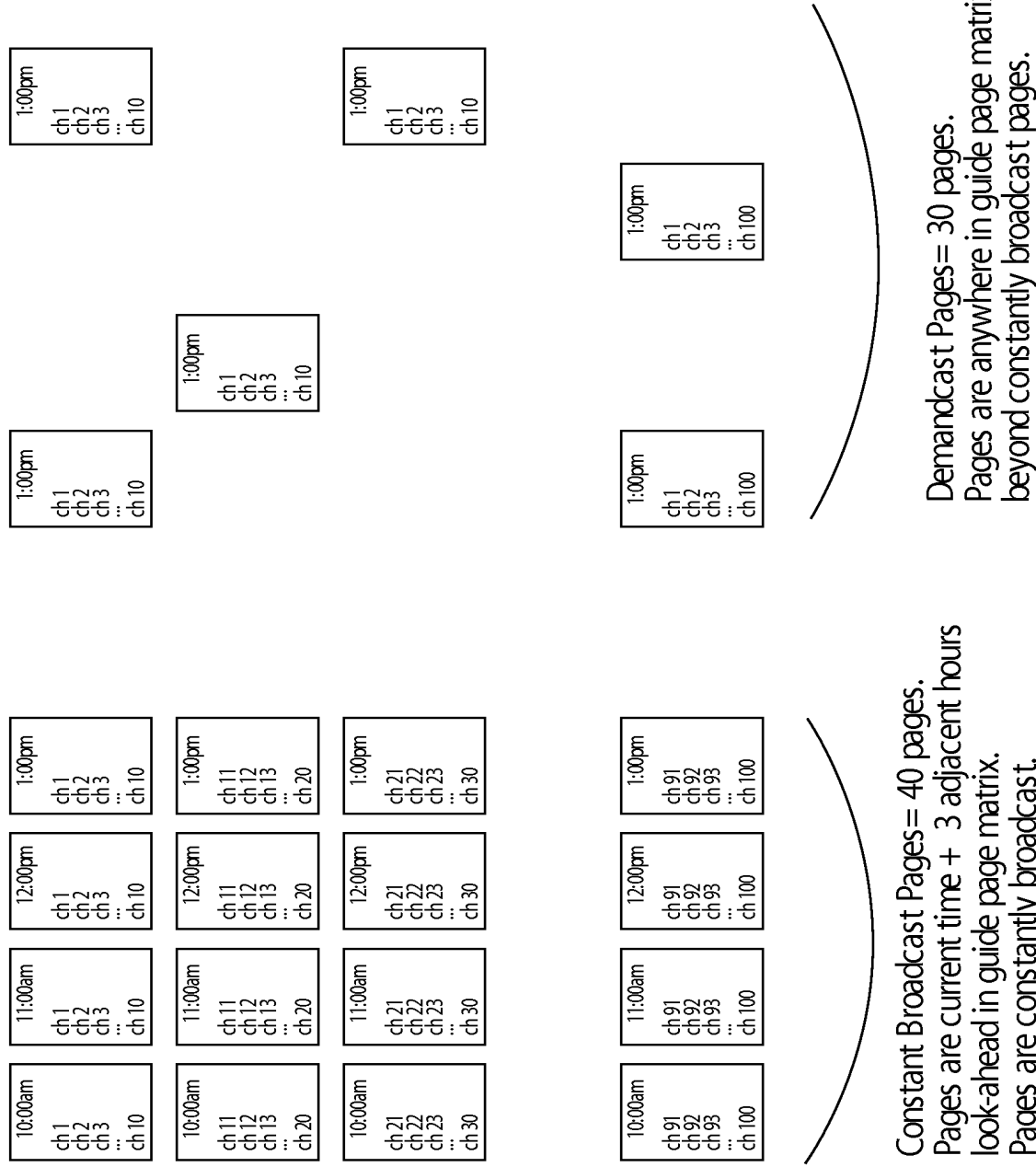


FIG. 8

Constant Broadcast Pages= 40 pages.
Pages are current time + 3 adjacent hours
look-ahead in guide page matrix.
Pages are constantly broadcast.

Demandcast Pages= 30 pages.
Pages are anywhere in guide page matrix
beyond constantly broadcast pages.

of pages in broadcast = # of constant broadcast pages+ # of demand cast pages
of constant broadcast pages = (# of pages per time slot) x (# of time slots in constant broadcast)

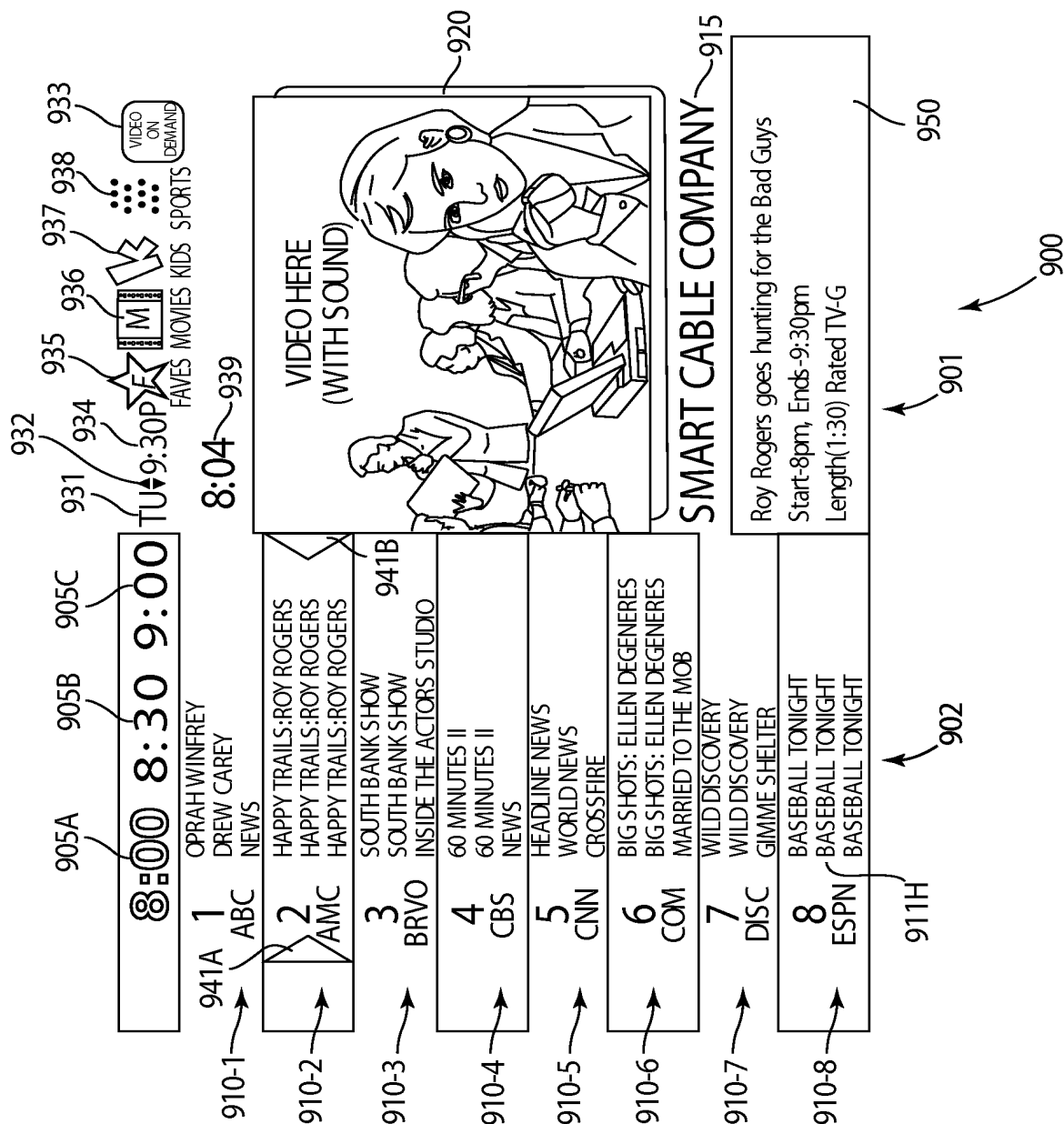


FIG. 9

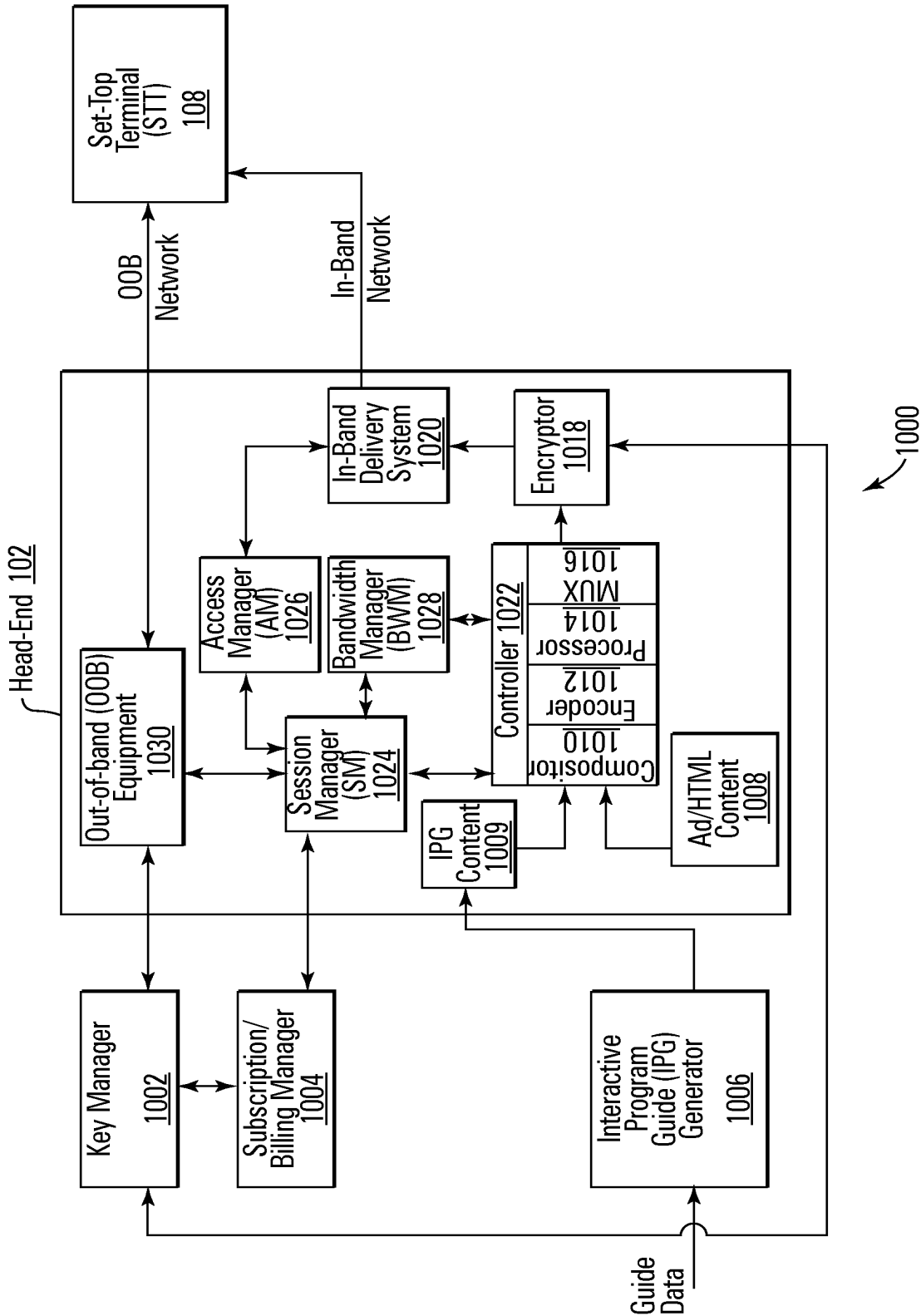


FIG. 10

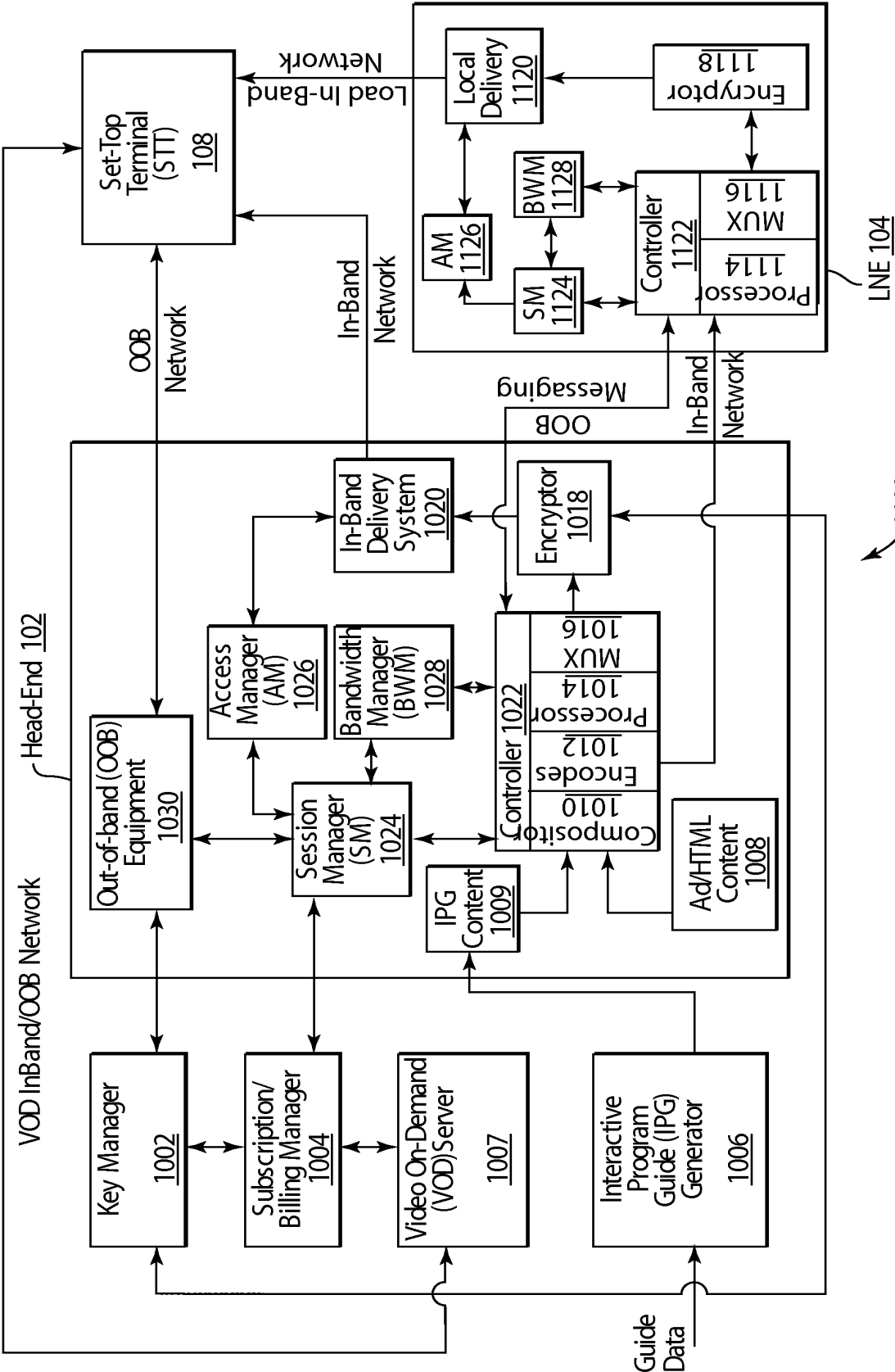


FIG. 11

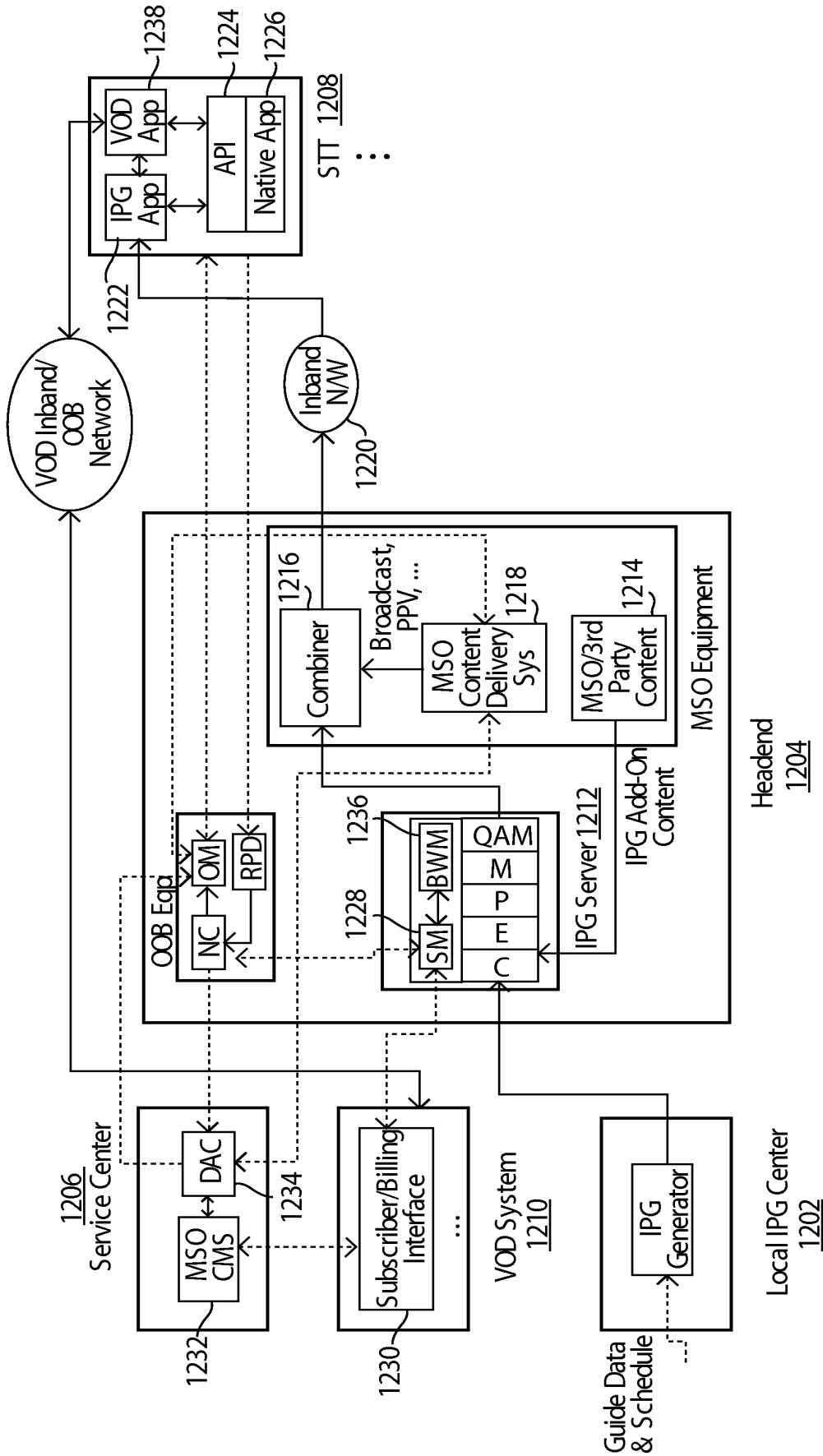


FIG. 12

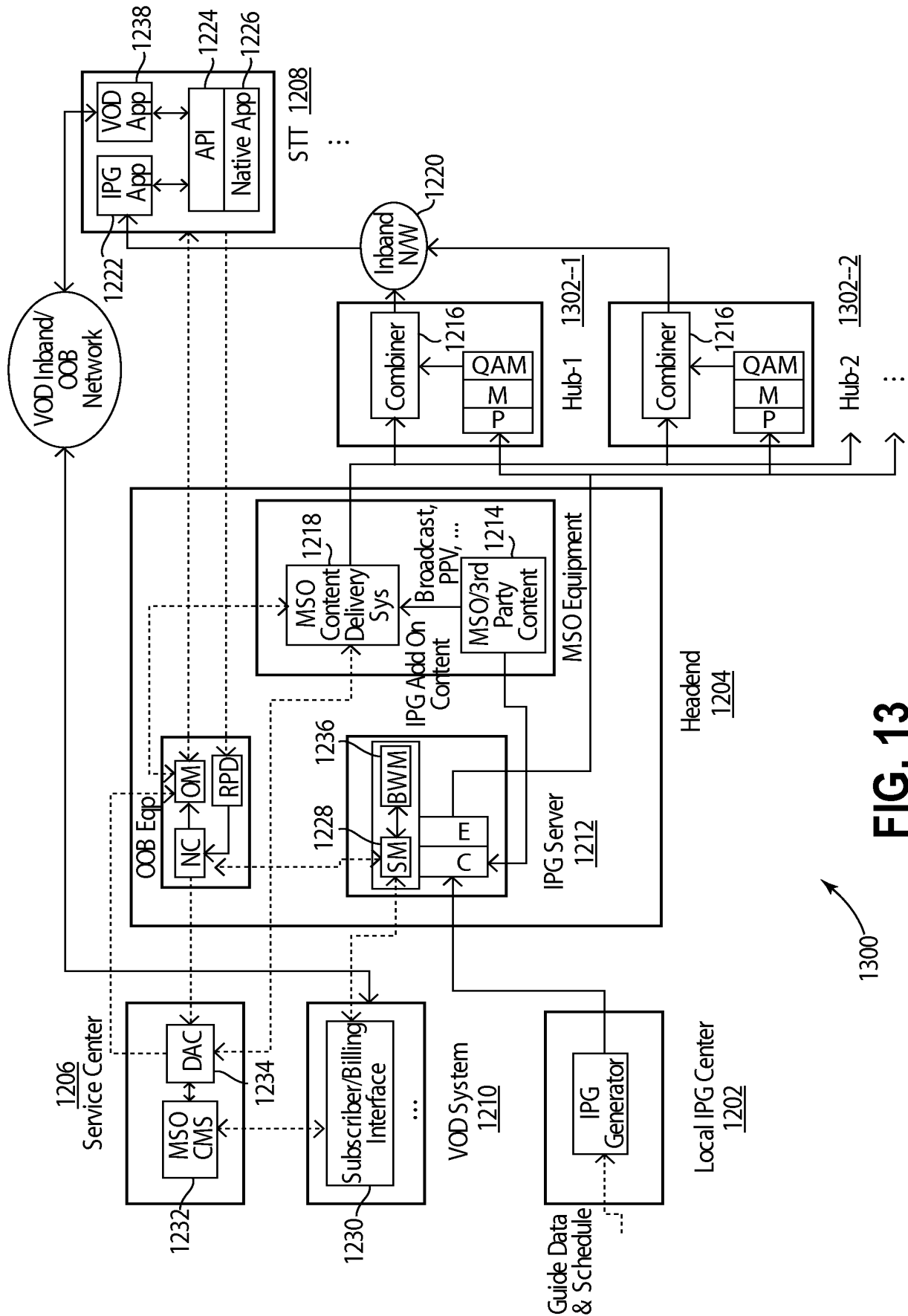


FIG. 13

TSG to-Terminal Communication:

Contents of Demand-Cast Index Table

table version number (incremented when table content changes)
list of available demand-cast streams
IP address for the source TSG
MUX channel number within the source TSG
time of day and day of week

FIG. 14

Terminal to-SM Communication:

Message Content

demand-cast stream ID
terminal ID
IP address for the source TSG
MUX channel number within the source TSG
message information (acquisition, release, or request)

FIG. 15

SM to-TSG Communication:

Message Content

demand-cast stream ID
MUX channel number within the source TSG
message/command (stream released, stream requested, or reset)

FIG. 16

TSG to-SM Communication:

Message Content

demand-cast stream ID
MUX channel number within the source TSG
IP address for the source TSG
acknowledgment (of stream release, of stream request, or of reset)

FIG. 17

A	A	A	A	R	R	R	R
A	A	A	A	R	R	R	R
A	A	A	A	R	R	R	R
A	A	A	R	R	R	R	P
A	A	A	R	R	R	R	P

A: acquired streams are in mux
and in demand-cast index table

R: released streams are in mux
and in demand-cast index table.
They can be turned into passive
streams.

P: passive streams are
technically released. They are
not in the demand-cast index
table. They are removable.



active demand-cast streams are in IPG multiplex

TSG Demand-cast Stream Status

FIG. 18

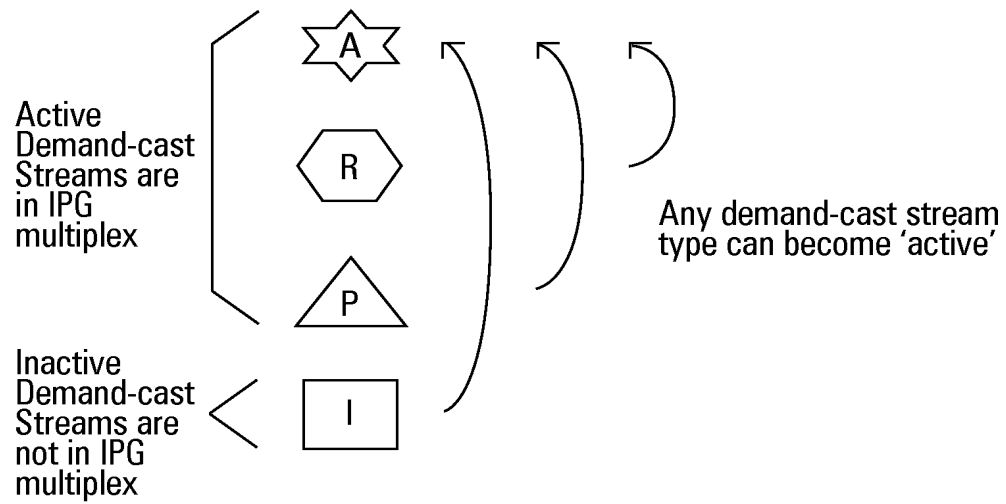


FIG. 19

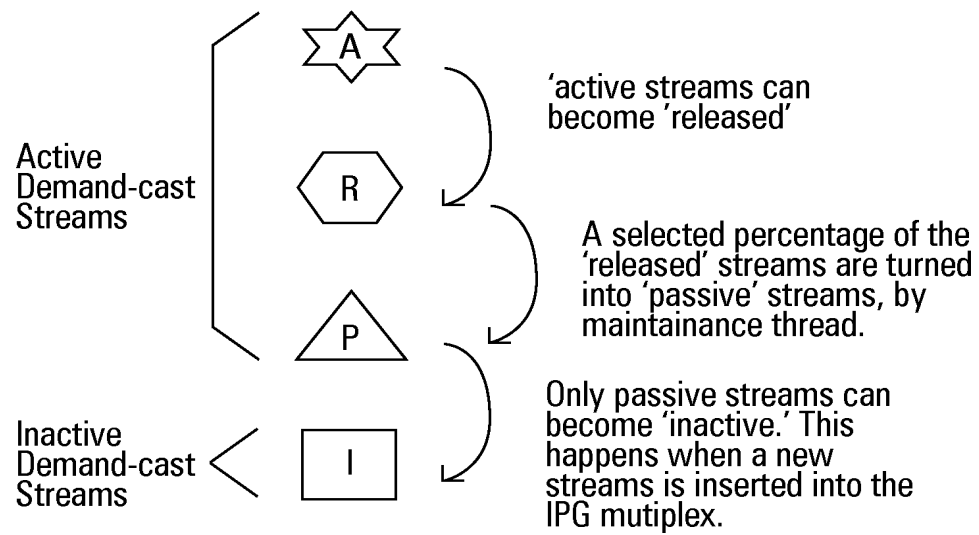


FIG. 20